
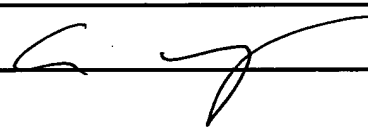
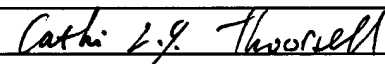


TRANSMITTAL FORM  (to be used for all correspondence with the PTO)	Application Number	10/506,478	
	Filing Date	September 1, 2004	
	First Named Inventor	Hyosang KANG	
	Art Unit	Not yet assigned.	
	Examiner Name	Not yet assigned.	
Total Number of Pages in This Submission	6	Attorney Docket Number	61282.00016

ENCLOSURES (check all that apply)			
<input checked="" type="checkbox"/> Fee Transmittal Form w/ duplicate [Total 2 pages] <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement pursuant to 37 C.F.R. §1.97(b) [Total 2 pages] <input checked="" type="checkbox"/> PTO/SB/08a IDS by Applicant with copy of references 1-5. [Total 5 references]	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Postcard	Remarks
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm	Squire, Sanders & Dempsey L.L.P. 600 Hansen Way, Palo Alto, CA 94304-1043		
Signature			
Printed Name	Aaron Wininger		
Date	January 7, 2005	Reg. No.	45,299

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature			
Typed or printed name	Cathi L.G. Thorsell	Date	January 7, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).**FEE TRANSMITTAL
for FY 2005**☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)

Complete if Known

Application Number	10/506,478
Filing Date	September 1, 2004
First Named Inventor	Hyosang KANG
Examiner Name	Not yet assigned.
Art Unit	Not yet assigned.
Attorney Docket No.	61282.00016

METHOD OF PAYMENT (check all that apply)☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify) : _____☒ Deposit Account Deposit Account Number: 05-0150 Deposit Account Name: Squire, Sanders & Dempsey L.L.P.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) ☐ Credit any overpayments

Under 37 CFR 1.16 and 1.17

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

2. EXCESS CLAIM FEES**Fee Description**

Each claim over 20 (including Reissues)

Each independent claim over 30 (including Reissues)

Multiple dependent claims

	Small Entity	
	Fee (\$)	Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 30 (including Reissues)	200	100
Multiple dependent claims	360	180
Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
_____	_____	_____

Total Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**

_____ -20 or HP= _____ x _____ = _____

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**

_____ - 3 or HP= _____ x _____ = _____

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).


Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____	_____	_____ / 50 = _____ (round up to a whole number) x	_____	_____

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge) : _____

Fees Paid (\$)**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	45,229	Telephone	(650) 843-3392
Name (Print/Type)	Aaron Winger	Date	January 7, 2005		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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In re Application of:	Examiner:	Not yet assigned	
Hyosang KANG			
Serial No.:	10/506,478	Art Unit:	Not yet assigned
Filed:	September 1, 2004		
Title:	METHOD FOR DRY ETCHING A SEMICONDUCTOR WAFER		

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Commissioner for Patents
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**INFORMATION DISCLOSURE STATEMENT PURSUANT TO
37 C.F.R. §§1.97(b)**

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56 and pursuant to 37 CFR §§1.97-1.98, Applicant hereby notifies the U.S. Patent and Trademark Office of the references listed on the enclosed Form PTO-1449. One copy of each non-patent literature document cited is submitted herewith.

The present Information Disclosure Statement is being filed more than three months after the filing date but before receiving the first Office Action. Accordingly, no fee or certification is needed.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant reserves the right to dispute any of the listed documents as prior art during examination. Furthermore, Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application. The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other material information may exist.

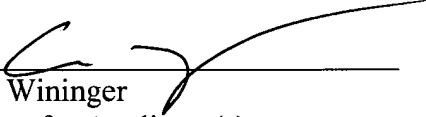
The Examiner is requested to initial the enclosed Form PTO-1449 and return a copy thereof to the undersigned.

If for any reason an insufficient fee has been paid, please charge the insufficiency to Deposit Account No. 05-0150.

Date: 1/7/05

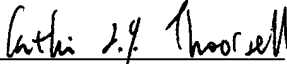
Respectfully submitted,

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600 Hansen Way
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By 
Aaron Wininger
Attorney for Applicant(s)
Registration No.: 45,229

CERTIFICATE OF MAILING

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/506,478
Filing Date	September 1, 2004
First Named Inventor	Hyosang KANG
Art Unit	Not yet assigned.
Examiner Name	Not yet assigned.
Attorney Docket Number	61282.00016

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1.	CHO, Byeong-Ok. <i>et al.</i> , "Angular Dependence of the Redeposition Rates During SiO ₂ Etching in a CF ₄ Plasma" J. Vac. Sci. Technol. A 19(3) May/Jun 2001, pp. 730-735.	
	2.	LEE, Gyeo-Re <i>et al.</i> "Sidewall-angle Effect on the Bottom Etch Profile in SiO ₂ Etching Using a CF ₄ Plasma" J.Vac. Sci. Technol. B 19(1), Jan/Feb 2001, pp. 172-178.	
	3.	MIN, Jae-Ho, <i>et al.</i> "Reseposition of Etch Products on Sidewalls During SiO ₂ Etching in a Fluorocarbon Plasma. III. Effects of O ₂ Addition to CF ₄ Plasma" J. Vac. Sci. Technol. B21(4) Jul/Aug 2003 American Vacuum Society, pp. 1210-1215.	
	4.	PINTA, R. <i>et al.</i> "Reactive Etching in SF ₆ Gs Mixtures" InP Misfet Technology Vol. 134, No. 1, January 1987, pp. 165-175.	
	5.	ZAROWIN, C.B. "Plasma Etch Anisotropy – Theory and Some Verifying Experiments Relating Ion Transport, Ion Energy, and Etch Profiles" J. Electrochem. Soc.: Solid state Science and Technology, May, 1983, pp. 1144-1152.	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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